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DEPORT POCHMENTATION DACE	READ INSTRUCTIONS
REPORT DOCUMENTATION PAGE	BEFORE COMPLETING FORM
DR 1094	, J. RECIPIENT'S CATALOG NUMBER
19702A GSRS Missile Number 222,	5. TYPE OF REPORT & PERIOD COVERE
Round Number B-58, 19 November 1979.	6. PERFORMING ONG. REPORT NUMBER
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26. ABSTRACT (Comtinue as reverse stab if necessary and identify by block number) Meteorological data gathered for the launching of	
Meteorological data gathered for the launching of	
Meteorological data gathered for the launching of	

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SECURITY CLASSIFICATION OF THIS PAGE (Phon Pera Minterest)

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INTRODUCTION

	19702A GSRS	, Missile	Number	222	, Round Number	B-58
was	launched from				e Range (WSMR), Ne	
at	1148 MST on	19 Nov 79		The sche	duled launch time	was
114	15 MST .		•			
			DISCUSS	SION		
	_				ite Sands Meteorol	-
		•	-		s Missile Range, N	ew mexico
ine	data were obtair	ied by the foi	lowing me	tuoas:		
	1. Observation	ıs				
	a. Surface	•				
	(1) St	andard surfac	e observat	tions to incl	ude pressure, temp	erature
(°C)	, relative humid	lity, dew poin	t (^O C), de	ensity (gm/m ³), Wind direction	and speed
and	cloud cover were	made at the	LC-	33 <u>Met</u>	Site at T-0 minut	. e s.
	(2) Ar	emometer data	were prov	vided from ex	isting pole-mounte	d and
towe	er-mounted anemon	neters at LC-3	3. Monito	or of wind sp	eed and direction	from one
anen	nometer was also	provided in t	he launch	control room) .	
	b. Upper A	lír				
	(1) Lo	w level wind	data were	obtained fro	m RAPTS T-9 pibal	obse rva-
tion	at:					
			SITE AND	ALTITUDE		
			LC-33	2 km		
			Nick	2 km		
					collected at the f	ollowing
		e collected f	rom surfac	ce to <u>83.0</u>	00 feet	in
500-	feet increments.			1		
			SITE ANI	D TIME		
			1145	MST		



	Y186,500			·	<u> </u>	<u> </u>	7-7		 <u></u>	
			POLE 3		<u> </u>		 			
	Y186,000		POLE 2	0						
8	1100,000		POLE 1	AOA	L-5	19				
MET TOWER			L-5	1						
	Y185,500									
	1-1-1				+-	RAPTS			-	
	 	- /			<u> </u>	NAP 13	7		1	
X475,000		X485,500			X486,000	BLOCKHO	USE	X486,500		X487,000
X47	Y185,000	×48			X48	≥ 3		X48		X48

- 1. MET TOWER 4 Bendix Model T-20 Anemometers at 12 ft, 62 ft, 102 ft, and 202 ft with E/A recorders.
- 2. POLE ANEMOMETER Bendix Model T-120 with E/A recorders.
 - (a) Pole #1 38.7 ft.
 - (b) Pole #2 53.0 ft.
 - (c) Pole #3 83.6 ft.
- 3. RAPTS T-9 Radar Automatic Pilot-Balloon Tracking System T-9 Radar.

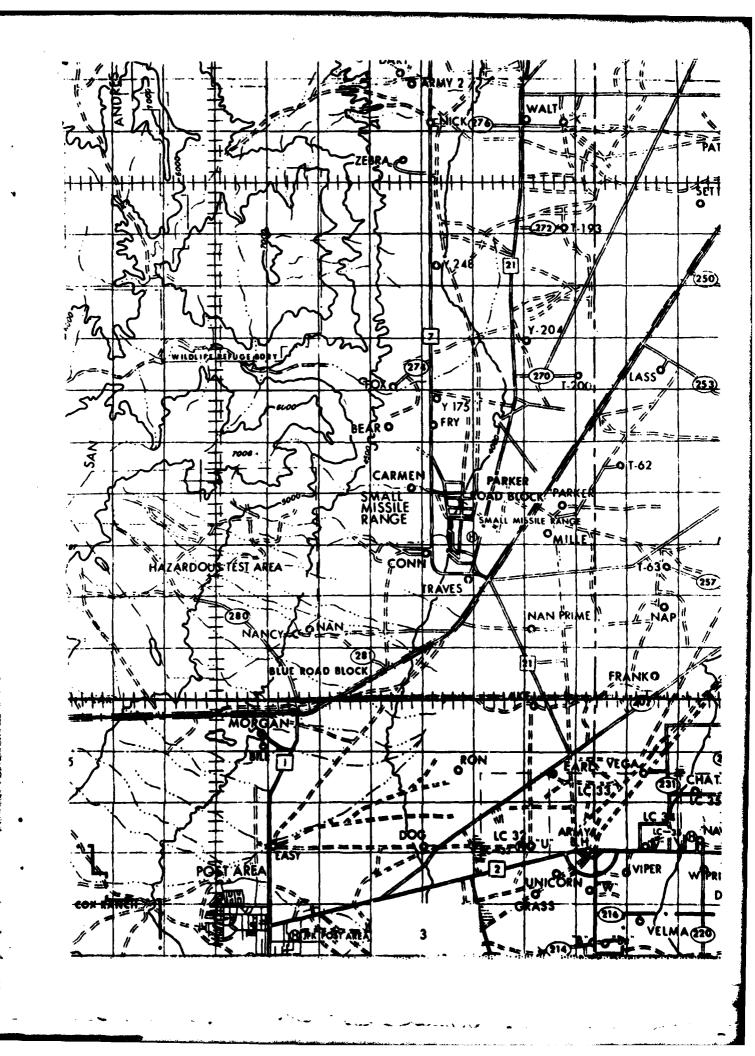


TABLE 1. Surface Observations taken at 1148 MST, 19 November 1979, at LC-33, 19702A GSRS, Missile Number 222, Round Number B-58.

ELEVATION	3977.30	FT/MSL
PRESSURE	877.5	MBS
TEMPERATURE	20.4	°c
RELATIVE HUMIDITY	35	gr Ac
DEW POINT	4.4	°C
DENSITY	1041	GM/M ³
WIND SPEED	13	KTS
WIND DIRECTION	150	DEGREES
CLOUD COVER	4	Cu
CLOUD COVER	1	Ci

TABLE 2 LC-3	33 FIXE	D POLE	ANEMOMETER	MEASURED W	INDS
--------------	---------	--------	------------	------------	------

POLE #1 X485,874.29 Y185,958.90 H4018.74 38.7 ft. AGL			POLE #2 X485,874 Y186,012 H4033.5 53.0 ft	4.93 2.00 7		POLE #3 X495,877.29 Y186,116.06 H4063.92 83.6 ft. AGL			
T-TIME Sec	DIR DEG	SPEED T-TIME DIR KTS SEC DEG				T-TIME SEC	DIR DEG	SPEED KTS	
-30	168	18	-30	186	14	- 30	183	16	
-20 [.]	198	16	-20	207	11	-20	194	17	
-10	209	18	-10	212	14	-10	197	17	
0 .0	210	13	0.0	214	14	0.0	196	17	
+10	195	17	+10	215	13	+10	189	18	

TABLE	3	LC-33 METEO	ROLOGICAL TOWER	ANEMOME TER	MEASURED WIN	DS (202	FT	TOWER)

LEVEL #1, 12 X484,982.64		, H3983.00 (base)	LEVEL #2, 62 FEET X484.982.64, Y185,057.73, H3983.00 (base)					
T-TIME SEC	DIR DEG	SPEED KTS	T-TIME SEC	DIR DEG	SPEED KTS			
-30	178	08	- 30	195	09			
-20	176	09	-20	180	17			
-10	168	10	-10	180	13			
0.0	173	07	0.0	179	11			
+10	171	11	+10	180	19			

LEVEL #3, 10 x484,982.64	02 FEET 1185,057.7	3, H3983.00 (base)	LEVEL #4, 202 FEET X484,982, Y185,057.73, H3983.00 (base)				
T-TIME SEC	DIR DEG	SPEED KTS	T-TIME SEC	DIR DEG	SPEED KTS		
- 30	182	11	-30	182	19		
-20	171	14	-20	175	19		
-10	177	14	-10	180	17		
0.0	171	16	0.0	183	18		
+10	180	16	+10	180	19		

TABLE	4											
RELEASED	FROM LC-	33		DATE	19	November	r 197	79	TIME 11	35 MST		
TRACKER	coo	RDI NATE:	s (W	STM) X=	486,037.2	4 γ:	=18	32,350.1	6 H= 3	977.30		
	TRACKER COORDINATES (WSTM) X= 486,037.24 Y= 182,350.16 H= 3977.30 NOTE: WIND DIRECTIONS ARE REFERENCED TO TRUE NORTH											
	HEIGHTS ARE METERS AGL_XX_ OR FEET AGL											
HEIGHT	DIRECTION	SPEED		HEIGHT	DIRECTION	SPEED	1	HEIGHT				
AGL	DEGREES	KTS		AGL	DEGREES	KTS	}	AGL	DEGREES	KTS		
SFC	168	13					ŀ			 		
90	MISG	MISG					1	· · · · · · · · ·				
150	188	13					-	 				
210	192	15		 	ļ	 				ļ		
270	200	15								 		
330	193	15		ļ								
390	190	14		ļ	<u></u>							
500	199	19						·····		<u> </u>		
650	205	19		 								
800	209	17					l					
950	218	17					ł					
1150	219	17										
1350	226	20										
1550	226	24					1					
1750	231	23	}									
2000	217	24		 			1		7			
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TABLE	5									
RELEASED	FROMLC-3	33		DATE	19 Nov	ember 19	79		TIME11	.48 MST
TRACKER	COO	RDINATE	S (W	ISTM) X=	486,037.2	<u>4</u> γ	=_1	82,350.1	6 H= 39	77.30
NOTE: W	IND DIRECTI	ONS ARE	REF	ERENCED T	O TRUE N	ORTH				
	ARE METERS									
	DIRECTION				DIRECTION			HEIGHT	1	
		KTS		AGL	DEGREES	KTS		AGL	DEGREES	KTS
SFC	186	19			 					
90	MISG	MISG	Ì		 			···		ļ
150	179	18		<u></u>		ļ				
210	163	14			<u> </u>	 			ļ	<u> </u>
270	192	14								<u> </u>
330	198	18							ļ	
390	201	16		 						
500	202	17			ļ					
650	205	19								ļ
800	205	20								
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1150	206	23								
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TABLE	6							
RELEASED	FROM	Nick	DA	E 19 Novem	ber 1979		TIME 1	40 MST
TRACKER		COORDINATES	s (wstm)	(= 470,734.	<u>56</u> γ =	255,775.64	H= 4 :	126.57
NOTE: W	IND DIRE	CTIONS ARE	REFERENCED	TO TRUE NOR	TH			
HEIGHTS	ARE METE	RS AGL XX	OR FEET AGE	••	•			
HEIGHT AGL	DIRECTI DEGREES	ON SPEED KTS	HEIGHT AGL		SPEED KTS	HEIGHT AGL	DIRECTION DEGREES	SPEED KTS
SFC	190	13						
90	MISG	MISG						
150	190	19						
210	192	20						
270	185	22						
330	184	22						
390	183	25						
500	173	17						
650	181	13						
800	178	14						
950	206	13						
1150	244	18						
1350	236	23						
1550	223	21						
1750	217	25						
2000	218	25						
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TABLE	7								
RELEASED	FROM N	lick		DATE	19	November	1979	TIME	1148 MST
TRACKER	C	OORDINATE	S (W	STM) X=	470,734.5	6 γ.	255,77	5.64	4126.57
NOTE: WI	IND DIRECT	TIONS ARE	RE F	ERENCED T	O TRUE NO	RTH			
					•				
HEIGHT	DIRECTION DEGREES			HEIGHT	DIRECTION DEGREES	SPEED	HEIG		CTION SPEED EES KTS
SFC	190	10		AGL	DEGREES	K13	AGE	DEGR	LES KIS
90	MISG	MISG	ĺ			†	 		
150	163	14		 	 	 			
210	182	13		-	<u> </u>		<u> </u>		
270	216	13							
330	217	10				 	ļ		
390	210	14							
500	202	16	1		<u> </u>				
650	189	19							
800	189	16							
950	180	16							
1150	204	16							
1350	MISG	MISG							
1550	216	18							
1750	226	23							
2000	223	23							
]						
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STATION ALTITUDE 3997-30 FEET MSL 19 NOV- 79 1145 HRS MSI 35051510N NO- 37?

SIGNIFICANT LEVEL DATA 3220060377 S M R TABLE 8

32.4203% LAT DEG 105.42307 LOW DEG GEODETIC COCRDINATES

TEMPERATURE AIR DEMPCINI DEGREES CENTIONADE

REL.HUM. PERCENT

16.0°0 16.7°0 16.9°4 -552-4 -652-4 -624-63-6 -64.6 -61.42 -59.40 -62.1 -2.4 PRESSURE GEOWETRIC ALTITUDE MILLIBARS WOL FEET 25608.5 27716.2 28575.0 29431.5 30900°B 32902°B 34030°B 40435.6 45703.3 47922.3 68725.6 69550.9 7.5581.5 78359.6 83387.7 43025.5 36174.5 39663-7 2522-2 2352-2 235-0 200-0 1593-1 125-5 127-5 1000-0 50000 411100 40000 50000 50000 50000 50000 50000 50000 677-5 850-0

UPPER AIR DATA	3230060377	ር ድ ር	TABLE
	3997-30 FEET MSL	TIES THE WELL	~
	STATION ALIITUDE	129 NOV 79 1145 HSS MST	ASCENSION NO. 37

ASCENSION	40. 377		•		TABLE 9			106.	106.42337 LOM JEG
GEONETHIC ALTITUDE NSE FEET	PRESSURE MILLIBANS	TE AIR DEGRIE	RPERATURE DEMPOINT S CENTISRADE	REL.HUM. PERCENT	DEWSITY S GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DAT DIRECTION DEGREES(IN)	SPEED KNOTS	INDEX OF REFRACTION
3997.3	877.3	20.7	5.1	35.0	1036-1	6:69-1	10.	12.0	1.900269
4.000.6	377.2	29+7	5.1	35.0	030.	Ġ	210.0	å	326
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AT LEAST ONE ASSUMED PELATIVE HUMBOITY VALUE WAS USED IN THE INTERPOLATION.

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TATION PLITS 9 Nov. 79 Sterston No	TUDE 39	97-30 FEET MSL 1145 HRS MST		UPPER AIN 32500003 S M S TABLE 0 L	3377 3377		GEODETIC 32.40 106.40	DETIC COONDINATES 32.48034 LAT DEG 106.42307 LON DEG
				0	(2000)			
SECOND TRIC	PRESSURE	18 C C C C C C C C C C C C C C C C C C C	851.HUM.	¥ : (30 032dS		4 .	INDEX
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390	150.7	57.0		269.7	571.7	229.7	50.7	1.000060
44.000.0	3.551	-58.7		254.4	570.6	229.2	49.3	
~	900	g•ó ⊊-		250-1	3)	228.7	49.5	• 900005
6	155-1	-40+3		254.0		250.2	50.5	•00005
640000	Š	N • • • • • • • • • • • • • • • • • • •		ひ・ ○☆&	47	227.8	51.1	1.000055
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TABLE 9 (cont)

GEODETIC COORDINATES 32.48034 LAT DEG 106.42307 LON DEG

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DENSITY S 67/CU31C METER	103.8	101	39.1	50.00	7.5	51.K	83.2	85.7	84.0	5.10	0.00	70.5	76.5	14.6	72.6	70.9	69.2	67.5	Sec. 35	£4.49	62.6	61.0	39.5	S8•0	9.35 10.00	io Io	53.7	52.3	C+15	49.2	£ • 0 t1	N. 14	45.0	6 • 5 27	£3.€	3 • 25	9.75	B.02	E	١
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GEODÉTIC COORDINATES 32-46034 LAT DEG 106-42307 LON DEG

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WANDATCRY LEVELS 3235660377 S.M.R. TABLE 10

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CATA SPEED KNOTS	######################################	
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EMPERATURE DEMPOSAT ES CENTIONUE	0 P 0 P 1 P 1 P 1 P 1 P 1 P 1 P 1 P 1 P	
7 A 13	ការ () ដែលស្រុកការសម្គេកស្តេសស្តេសស្តេសស្តេសស្តេសស្តេសស្តេសស្ត	
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PRESSURE O		